

Abstract

An auxiliary lubrication system for an aircraft turbine
5 engine includes a reservoir **32** of lubricant **50** and a venturi
42 to suction lubricant out of the reservoir and direct an
lubricant mist at a bearing **24** or other component requiring
lubrication. The venturi is directly connected to a source
of motive fluid, such as pressurized air extracted from an
10 engine flowpath **10**, and is continuously driven by the motive
fluid. The auxiliary system accommodates a failure or
malfunction of the primary, high pressure lubrication
system. The auxiliary system operates during normal
conditions, when the primary system is fully functional. If
15 the primary system fails, the auxiliary system continues to
operate for a limited time, until the lubricant in the
reservoir is depleted, to provide an lubricant mist to the
component being lubricated. The limited-duration lubricant
supply allows the aircraft crew time to carry out actions
20 required to safeguard the aircraft and its occupants.